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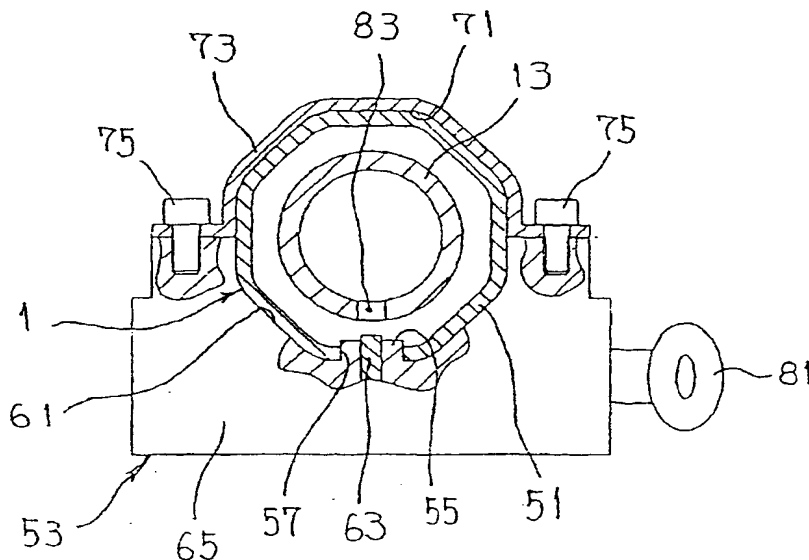
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- (51) 国際特許分類⁷: B60R 25/02, B62D 1/16, 1/18 (72) 発明者; および
(21) 国際出願番号: PCT/JP2003/009014 (75) 発明者/出願人 (米国についてのみ): 佐藤 健司 (SATO, Kenji) [JP/JP]; 〒371-0853 群馬県 前橋市 総社町 1 丁目 8 番 1 号 日本精工株式会社内 Gunma (JP).
(22) 国際出願日: 2003 年 7 月 16 日 (16.07.2003) 澤田 直樹 (SAWADA, Naoki) [JP/JP]; 〒371-0853 群馬県 前橋市 総社町 1 丁目 8 番 1 号 日本精工株式会社内 Gunma (JP).
(25) 国際出願の言語: 日本語
(26) 国際公開の言語: 日本語 (74) 代理人: 井上 義雄 (INOUE, Yoshio); 〒103-0027 東京都 中央区 日本橋 3 丁目 1 番 4 号 画廊ビル 3 階 Tokyo (JP).
(30) 優先権データ: 特願 2002-208535 2002 年 7 月 17 日 (17.07.2002) JP (81) 指定国 (国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI,
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[続葉有]

(54) Title: STEERING COLUMN DEVICE

(54) 発明の名称: ステアリングコラム装置



(57) Abstract: A steering column device having a steering column provided with a steering lock installation portion on the outer periphery of the column and swingably supporting a steering shaft, and a lock key for latching the steering shaft. The device comprises a steering lock provided with a contact portion that is in contact with one part of the steering lock installation portion of the steering column and a lock bracket provided with a contact portion that is in contact with another one part of the steering lock installation portion. The contact portion of the steering lock and the contact portion of the lock bracket hold and support a steering installation portion of the steering column. The steering lock installation portion of the steering column is in contact with at least either of the steering lock and the lock bracket with a contact face having a non-circular cross section.

(57) 要約: 外周にステアリングロック装着部を備え、ステアリングシャフトを回動自在に支持するステアリングコラムと、ステアリングシャフトの係止のためのロックキーを有し、ステア

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/09014

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B60R25/02, B62D1/16, B62D1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B60R25/02, B62D1/16, B62D1/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 8-295202 A (NSK Ltd.), 12 November, 1996 (12.11.96), Full text; Figs. 1 to 11 (Family: none)	1-4
A	GB 2298837 A1 (NSK Ltd.), 18 September, 1996 (18.09.96), Full text; Figs. 1 to 14 & JP 8-253105 A Full text; Figs. 1 to 14	1-4
A	EP 1016570 A2 (ALPHA CORP.), 05 July, 2000 (05.07.00), Full text; Figs. 1 to 12 & JP 2000-192703 A Full text; Figs. 1 to 12	1-4

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"A" document defining the general state of the art which is not

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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Date of the actual completion of the international search
04 September, 2003 (04.09.03)

Date of mailing of the international search report
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Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-67881 A (NSK Ltd.), 08 March, 2002 (08.03.02), Full text; Figs. 1 to 4 (Family: none)	1-4
A	JP 7-32323 Y2 (Nissan Motor Co., Ltd.), 26 July, 1995 (26.07.95), Full text; Figs. 1 to 6 (Family: none)	1-4
P, A	JP 2002-316652 A (NSK Ltd.), 29 October, 2002 (29.10.02), Full text; Figs. 1 to 3 (Family: none)	1-4
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 23469/1980 (Laid-open No. 124569/1981) (Fuji Heavy Industries Ltd.), 22 September, 1981 (22.09.81), (Family: none)	1-4